

## ABSTRACT OF THE DISCLOSURE

Processing for improving the contrast of an image of interest is executed by an image processing circuit in an X-ray photography apparatus. The image is

5 decomposed into coefficient values of a plurality of frequency bands by a frequency-component decomposition circuit to obtain coefficients of each and every frequency band. A coefficient conversion circuit converts coefficient values with regard to at least

10 one frequency band of the plurality of frequency bands in such a manner that a frequency distribution of coefficient values of every frequency band will become a prescribed frequency distribution. A restoration circuit generates an image using the coefficient

15 values obtained by the conversion performed by the coefficient conversion circuit.